

GasPro™ TEM-1800

High Purity All-
Fluoropolymer
316L In-Line Filter

GasPro™ TEM-1800 series filters are specifically designed for the filtration of UHP semiconductor gases. This all-welded assembly will deliver 0.003 micron particle retention.

A PTFE membrane and all-fluoropolymer support structure is enclosed in a 316L stainless steel electro-polished welded housing. Final assembly is purged with filtrated nitrogen for initial cleanliness.

Applications

- Point-of-use filtration of process specialty gases.
- Low pressure to vacuum delivery of silicon precursors via vapour or inert carrier gas.



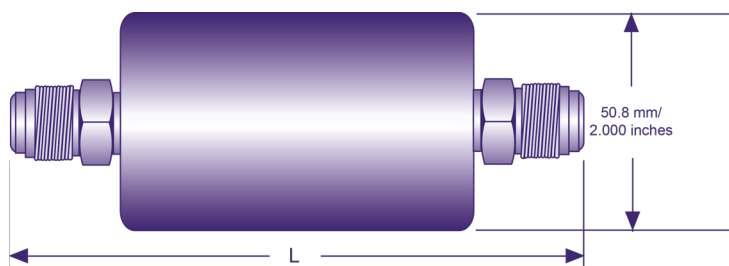
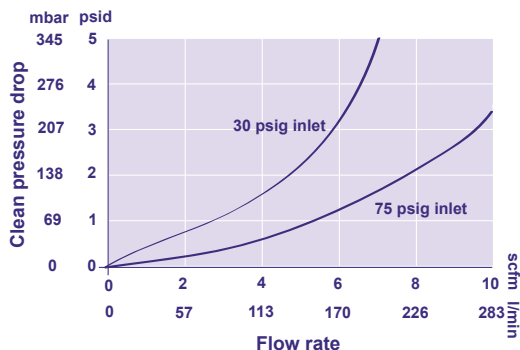
Specifications

- **3nm filter rating**
Our porous PTFE filters provide efficient particle retention efficiency at 0.003µm.
- **Maximum operating temperature**
121°C (250°F) in inert gas.
- **Maximum operating pressure**
51.6 bar (750 psig) at 20°C (68°F).

Features

- **PTFE media / PTFE support structure**
PTFE filter media provides excellent flow and chemical resistance.
- **Electro-polished 316L housing**
The filter assemblies have a 10Ra electro-polished 316L stainless steel housing to prevent corrosion and particle formation.
- **Cleanroom manufactured**
Our GasPro™ TEM-1800 filters are manufactured in a cleanroom to ensure particle free, chemically clean, and organic-free handling and bagging to provide high out-of-package cleanliness. Additional preconditioning is optional.
- **100% helium tested**
100% helium tested to greater than 1x10⁻⁹ atm cc/second.

Gas flow rate / Pressure drop



TEM-1800 Part Numbers and Ordering Information

Part number	Inlet/outlet fittings	Filter media / housing	Other materials	Length (L)
TEM-1811	1/4" compression inlet/outlet	PTFE / 316L stainless steel	All fluoropolymer / FEP encapsulated FKM	141.9mm (5.585")
TEM-1811-6	3/8" compression inlet/outlet			116.5mm (4.585")
TEM-1811-8	1/2" compression inlet/outlet			143.9mm (5.665")
TEM-1812-P	1/4" male face seal inlet/female outlet			141.2mm (5.561")
TEM-1815-6	3/8" male face seal inlet/outlet			132.6mm (5.22")
TEM-1850-6	3/8" butt weld inlet/outlet			143.9mm (5.665")
TEM-1850-8	1/2" butt weld inlet/outlet			143.9mm (5.665")

* Not all fittings, lengths, and part numbers are shown on the chart. Please contact your Porvair representative or an approved Porvair distributor for special length and fitting options.



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